

Title (en)
SUPPORTING FLUE STRUCTURE FOR AN ELECTRICAL PULSE GENERATOR

Title (de)
TRAGENDE KAMINSTRUKTUR FÜR ELEKTRISCHEN IMPULSGENERATOR

Title (fr)
STRUCTURE DE CHEMINEE PORTEUSE POUR GENERATEUR D'IMPULSIONS ELECTRIQUES

Publication
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Application
EP 00983440 A 20001220

Priority
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Abstract (en)
[origin: WO0251007A1] The invention relates to an integrated flue-support construction (2) for a Marx generator (1) comprising several generator stages (3). According to the prior art, a flue (2) for purifying the air of switching spark gaps (4) is arranged separately from a support structure for the switching spark gaps (4), impulse capacitors (5) and series and parallel resistors (7, 8). According to the invention, the flue (2) adopts a supporting function for the switching spark gap (4) and individual or all electrical components (5-10) of the impulse wave switching circuit. According to one form of embodiment, the flue (2) consists of a triangular cylinder support construction (2), the side walls (11) being formed from insulating panels (11) and each receiving one of the electrical components: a switching spark gap (4), an impulse capacitor (5) and resistors (7, 8). The advantages of the invention are as follows: less complicated construction measures and reduced costs, compact construction with a small flue cross-section surface (22) and therefore, low self-inductance of the impulse wave switching circuit and a simple production process, simple transportation and simple handling due to the plug-in modules (14) for at least one generator stage, respectively.

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